



629

629

THYRATRON

GAS-TRIODE

DATA**Electrical:****Heater, for Unipotential Cathode:**

Voltage*	2.5	volts
Current.	2.6	amp

Direct Interelectrode Capacitances (Approx.):

Grid to Anode.	3.3	μf
Grid to Cathode.	3.3	μf
Anode to Cathode.	1.8	μf

Peak Voltage Drop.	15	volts
--------------------	----	-------

Control Characteristic . Negative

Ionization Time (Approx.)	10	$\mu\text{seconds}$
---------------------------	----	---------------------

Deionization Time (Approx.)	1000	$\mu\text{seconds}$
-----------------------------	------	---------------------

Mechanical:

Mounting Position.	Any
--------------------	-----

Maximum Overall Length	4-1/4"
------------------------	--------

Maximum Seated Length.	3-5/8"
------------------------	--------

Maximum Diameter	1-9/16"
------------------	---------

Bulb	ST-12
------	-------

Base	Small 5-Pin
------	-------------

Maximum Ratings, Absolute Values:

PEAK FORWARD ANODE VOLTAGE	350 max.	volts
----------------------------	----------	-------

PEAK INVERSE ANODE VOLTAGE	350 max.	volts
----------------------------	----------	-------

PEAK GRID VOLTAGE.	-90 max.	volts
--------------------	----------	-------

PEAK ANODE CURRENT	0.2 max.	amp
--------------------	----------	-----

AVERAGE ANODE CURRENT**	0.04 max.	amp
-------------------------	-----------	-----

SURGE ANODE CURRENT for 0.1 sec. max.	2.0 max.	amp
---------------------------------------	----------	-----

GRID CURRENT, Before Conduction	2.5 max.	μamp
---------------------------------	----------	-----------------

PEAK GRID CURRENT.	20 max.	ma.
--------------------	---------	-----

AVERAGE GRID CURRENT**	0.4 max.	ma.
------------------------	----------	-----

DC HEATER-CATHODE POTENTIAL RANGE	-45 to +5	volts
-----------------------------------	-----------	-------

AMBIENT TEMPERATURE RANGE	-40 to +70	$^{\circ}\text{C}$
---------------------------	------------	--------------------

* Heater voltage must be applied at least 30 seconds before start of tube conduction.

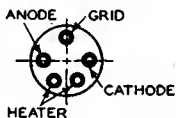
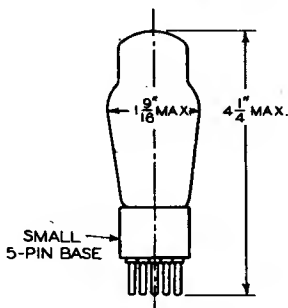
** Averaged over any 10-second interval.

629



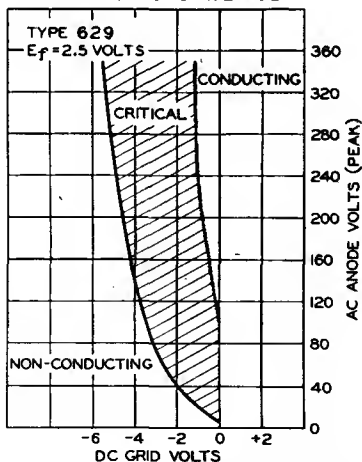
629

THYRATRON



92CS-6737

OPERATIONAL REGION OF CRITICAL GRID VOLTAGE



92CS-6736

MAY 1, 1946

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

CE-6737-6736